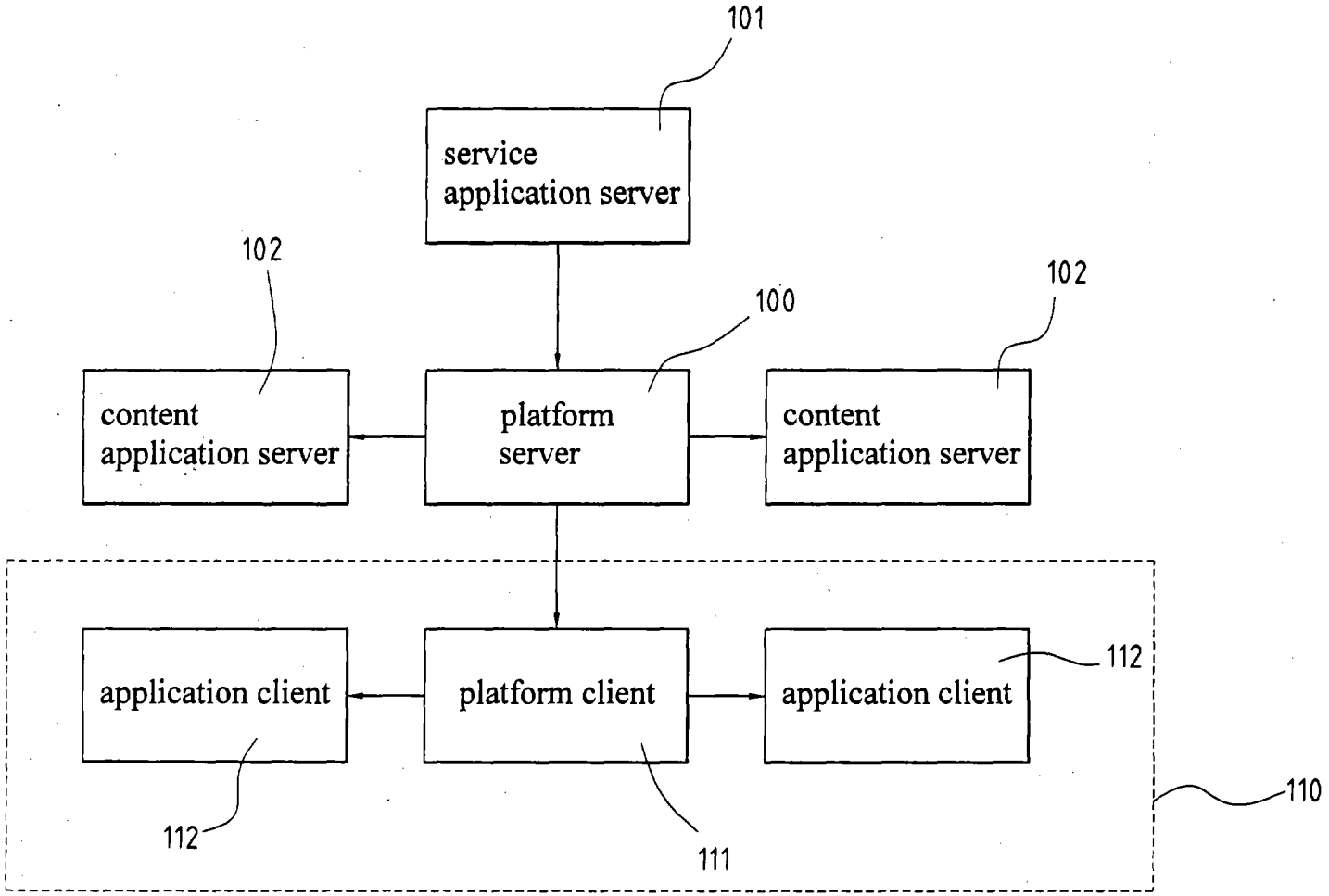
101
service application server
102
102
100
content application server
platform server
content application server
application client
platform client
application client
112
112
111
110

FIG. 1

Device Capability Table(DCT)

	Field	Description
201	Device ID	A unique ID that identifies this device
202	Device Name	A character string denotes the device name
203	Network	Type of network
204	Display lines	Number of lines visible on the screen
205	Memory Capacity	Native memory capacity,in KB
206	Screen width	Width of screen ,in pixels
207	Screen Height	Hight of screen ,in pixels
208	Screen Depth	Depth of color,in bits
209	Image format	Image format supported,0=jpeg,1=gif,2=bmp,3=png
210	Audio enabled	0=no audio,1=mono,2=stereo
211	Maximum Sampling Rate	Maximam quality of audio play back,in Khz
212	Audio format	Audio format supported, 0=MP3,1=wav,2=MIDI,3=Real Audio,4=WMA
213	Video Support	0=no Video,1=video capable
214	Video format	Video format supported,0=mpeg,1=mpeg4,2=WMA
215	List of native application on the device	A list of application name

FIG. 2

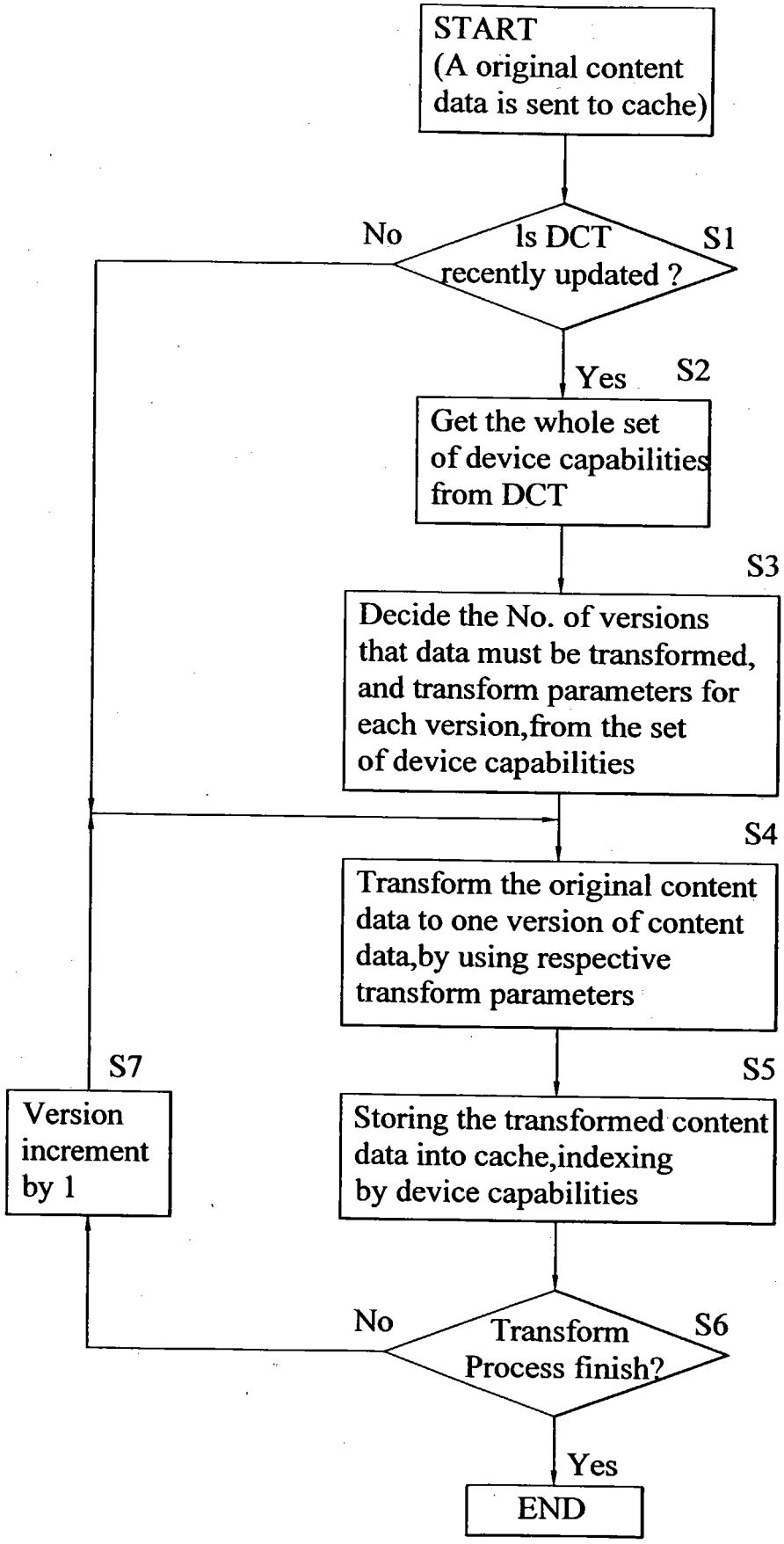
START
(A original content data is sent to cache)
ls DCT recently updated ?
S1
No
Yes
S2
Get the whole set of device capabilities from DCT
S3
Decide the No. of versions that data must be transformed, and transform parameters for each version,from the set of device capabilities
S4
Transform the original content data to one version of content data,by using respective transform parameters
S5
Storing the transformed content data into cache,indexing by device capabilities
Transform Process finish?
S6
No
Yes
S7
Version increment by 1
END

FIG. 3

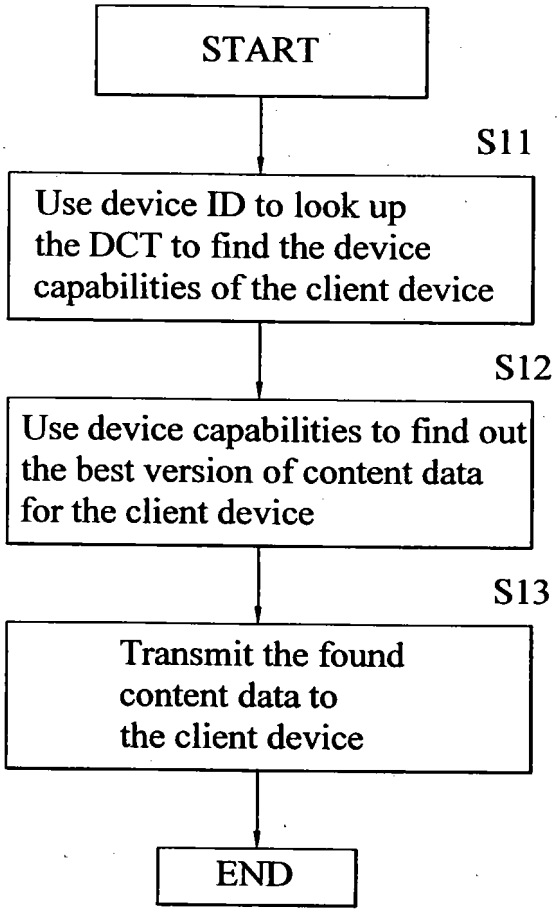
START
S11
Use device ID to look up the DCT to find the device capabilities of the client device
S12
Use device capabilities to find out the best version of content data for the client device
S13
Transmit the found content data to the client device
END

FIG. 4